

## Silicon Power Schottky Diode

**$V_{RRM} = 20 \text{ V - } 100 \text{ V}$**   
 **$I_F = 75 \text{ A}$**

### Features

- High Surge Capability
- Types up to 100 V  $V_{RRM}$

**DO-5 Package**



**Maximum ratings, at  $T_j = 25^\circ\text{C}$ , unless otherwise specified ("R" devices have leads reversed)**

Parameter	Symbol	Conditions	MBR7520 (R)	MBR7530 (R)	MBR7535 (R)	MBR7540 (R)	Unit
Repetitive peak reverse voltage	$V_{RRM}$		20	30	35	40	V
RMS reverse voltage	$V_{RMS}$		14	21	25	28	V
DC blocking voltage	$V_{DC}$		20	30	35	40	V
Continuous forward current	$I_F$	$T_C \leq 100^\circ\text{C}$	75	75	75	75	A
Surge non-repetitive forward current, Half Sine Wave	$I_{F,SM}$	$T_C = 25^\circ\text{C}, t_p = 8.3 \text{ ms}$	1000	1000	1000	1000	A
Operating temperature	$T_j$		-65 to 150	-65 to 150	-65 to 150	-65 to 150	$^\circ\text{C}$
Storage temperature	$T_{stg}$		-65 to 175	-65 to 175	-65 to 175	-65 to 175	$^\circ\text{C}$

**Electrical characteristics, at  $T_j = 25^\circ\text{C}$ , unless otherwise specified**

Parameter	Symbol	Conditions	MBR7520 (R)	MBR7530(R)	MBR7535 (R)	MBR7540 (R)	Unit
Diode forward voltage	$V_F$	$I_F = 75 \text{ A}, T_j = 25^\circ\text{C}$	0.65	0.65	0.65	0.65	V
Reverse current	$I_R$	$V_R = 20 \text{ V}, T_j = 25^\circ\text{C}$ $V_R = 20 \text{ V}, T_j = 125^\circ\text{C}$	5 150	5 150	5 150	5 150	mA
<b>Thermal characteristics</b>							
Thermal resistance, junction - case	$R_{thJC}$		1.0	1.0	1.0	1.0	$^\circ\text{C/W}$

